Analyst Worksheet

Batch Number: MTAN221031002
Location: Env. Monit. Lab/Metals
Process Name: Analysis

Printed Date: 11/17/22 11:08 AM
Batch Created Date: 10/31/22 2:40 PM
Batch Created by: User, Test

Sample Num	Test Name	Run	Parameter	Date	Time	Analyst	QC Type	MDL	PQL	Flag	Result
22-BLK2242	Blank-ICP-Metals 6020A Solid	1	Aluminum				BLK				
22-BLK2242	Blank-ICP-Metals 6020A Solid	1	Arsenic				BLK	0.617	2.47	U	0.002
22-BLK2242	Blank-ICP-Metals 6020A Solid	1	Barium				BLK	0.781	3.12	U	0.001
22-BLK2242	Blank-ICP-Metals 6020A Solid	1	Beryllium				BLK	1.09	4.36	U	-0.003
22-BLK2242	Blank-ICP-Metals 6020A Solid	1	Cadmium				BLK	0.660	2.64	U	0.001
22-BLK2242	Blank-ICP-Metals 6020A Solid	1	Chromium				BLK	0.724	2.90	U	0.006
22-BLK2242	Blank-ICP-Metals 6020A Solid	1	Copper				BLK	0.741	2.96	U	0.005
22-BLK2242	Blank-ICP-Metals 6020A Solid	1	Dilution				BLK				1.00
22-BLK2242	Blank-ICP-Metals 6020A Solid	1	Iron				BLK	1.19	4.76	U	0.058
22-BLK2242	Blank-ICP-Metals 6020A Solid	1	Lead				BLK	0.836	3.34	U	0.003
22-BLK2242	Blank-ICP-Metals 6020A Solid	1	Manganese				BLK	0.855	3.42	U	0.003
22-BLK2242	Blank-ICP-Metals 6020A Solid	1	Mercury				BLK				
22-BLK2242	Blank-ICP-Metals 6020A Solid	1	Nickel				BLK	0.748	2.99	U	0.005
22-BLK2242	Blank-ICP-Metals 6020A Solid	1	Selenium				BLK	0.882	3.53	U	0.033
22-BLK2242	Blank-ICP-Metals 6020A Solid	1	Silver				BLK	0.696	2.78	U	0.002
22-BLK2242	Blank-ICP-Metals 6020A Solid	1	Thallium				BLK	0.765	3.06	U	0.001
22-BLK2242	Blank-ICP-Metals 6020A Solid	1	Vanadium				BLK	0.718	2.87	U	0.001
22-BLK2242	Blank-ICP-Metals 6020A Solid	1	Zinc				BLK	0.711	2.84	U	0.027
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Aluminum				LCS				
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Aluminum - % Recovery				LCS				
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Aluminum - True Value				LCS				
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Arsenic				LCS	0.617	2.47		16.5
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Arsenic - % Recovery				LCS				109
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Arsenic - True Value				LCS				15.1
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Barium				LCS	0.781	3.12		16.7
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Barium - % Recovery				LCS				111
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Barium - True Value				LCS				15.1
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Beryllium				LCS	1.09	4.36		17.5
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Beryllium - % Recovery				LCS				116
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Beryllium - True Value				LCS				15.1
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Cadmium				LCS	0.660	2.64		17.1

Sample Num	Test Name	Run	Parameter	Date	Time	Analyst	QC Type	MDL	PQL	Flag	Result
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Cadmium - % Recovery				LCS				114
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Cadmium - True Value				LCS				15.1
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Chromium				LCS	0.724	2.90		17.5
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Chromium - % Recovery				LCS				116
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Chromium - True Value				LCS				15.1
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Copper				LCS	0.741	2.96		17.7
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Copper - % Recovery				LCS				118
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Copper - True Value				LCS				15.1
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Dilution				LCS				1.00
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Iron				LCS	1.19	4.76		17.6
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Iron - % Recovery				LCS				117
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Iron - True Value				LCS				15.1
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Lead				LCS	0.836	3.34		16.9
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Lead - % Recovery				LCS				112
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Lead - True Value				LCS				15.1
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Manganese				LCS	0.855	3.42		17.2
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Manganese - % Recovery				LCS				114
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Manganese - True Value				LCS				15.1
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Mercury				LCS				
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Mercury - % Recovery				LCS				
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Mercury - True Value				LCS				
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Nickel				LCS	0.748	2.99		17.5
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Nickel - % Recovery				LCS				116
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Nickel - True Value				LCS				15.1
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Selenium				LCS	0.882	3.53		16.6
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Selenium - % Recovery				LCS				110
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Selenium - True Value				LCS				15.1
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Silver				LCS	0.696	2.78		16.4
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Silver - % Recovery				LCS				109
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Silver - True Value				LCS				15.1
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Thallium				LCS	0.765	3.06		16.5
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Thallium - % Recovery				LCS				109
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Thallium - True Value				LCS				15.1
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Vanadium				LCS	0.718	2.87		17.4
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Vanadium - % Recovery				LCS				115
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Vanadium - True Value				LCS				15.1

Sample Num	Test Name	Run	Parameter	Date	Time	Analyst	QC Type	MDL	PQL	Flag	Result
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Zinc				LCS	0.711	2.84		17.5
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Zinc - % Recovery				LCS				116
22-LCS2196	LCS-ICP-Metals 6020A Solid	1	Zinc - True Value				LCS				15.1
221003-059J	ICP-Metals 6020A Solid	1	Aluminum	10/28/22	11:56:00	TU					
221003-059J	ICP-Metals 6020A Solid	1	Arsenic	10/28/22	11:56:00	TU		0.617	2.47	I	1.20
221003-059J	ICP-Metals 6020A Solid	1	Barium	10/28/22	11:56:00	TU		0.781	3.12	I	1.23
221003-059J	ICP-Metals 6020A Solid	1	Beryllium	10/28/22	11:56:00	TU		1.09	4.36	I	1.58
221003-059J	ICP-Metals 6020A Solid	1	Cadmium	10/28/22	11:56:00	TU		0.660	2.64	I	1.28
221003-059J	ICP-Metals 6020A Solid	1	Chromium	10/28/22	11:56:00	TU		0.724	2.90	I	1.34
221003-059J	ICP-Metals 6020A Solid	1	Copper	10/28/22	11:56:00	TU		0.741	2.96	I	1.34
221003-059J	ICP-Metals 6020A Solid	1	Dilution	10/28/22	11:56:00	TU					1.00
221003-059J	ICP-Metals 6020A Solid	1	Iron	10/28/22	11:56:00	TU		1.19	4.76	I	1.51
221003-059J	ICP-Metals 6020A Solid	1	Lead	10/28/22	11:56:00	TU		0.836	3.34	I	1.25
221003-059J	ICP-Metals 6020A Solid	1	Manganese	10/28/22	11:56:00	TU		0.855	3.42	I	1.28
221003-059J	ICP-Metals 6020A Solid	1	Mercury	10/28/22	11:56:00	TU					
221003-059J	ICP-Metals 6020A Solid	1	Nickel	10/28/22	11:56:00	TU		0.748	2.99	I	1.32
221003-059J	ICP-Metals 6020A Solid	1	Selenium	10/28/22	11:56:00	TU		0.882	3.53	I	1.42
221003-059J	ICP-Metals 6020A Solid	1	Silver	10/28/22	11:56:00	TU		0.696	2.78	I	1.19
221003-059J	ICP-Metals 6020A Solid	1	Thallium	10/28/22	11:56:00	TU		0.765	3.06	I	1.23
221003-059J	ICP-Metals 6020A Solid	1	Vanadium	10/28/22	11:56:00	TU		0.718	2.87	I	1.29
221003-059J	ICP-Metals 6020A Solid	1	Zinc	10/28/22	11:56:00	TU		0.711	2.84	I	1.35
221003-060J	ICP-Metals 6020A Solid	1	Aluminum	10/28/22	11:56:00	TU					1.00
221003-060J	ICP-Metals 6020A Solid	1	Arsenic	10/28/22	11:56:00	TU		0.617	2.47	I	1.04
221003-060J	ICP-Metals 6020A Solid	1	Barium	10/28/22	11:56:00	TU		0.781	3.12	I	1.04
221003-060J	ICP-Metals 6020A Solid	1	Beryllium	10/28/22	11:56:00	TU		1.09	4.36	I	1.03
221003-060J	ICP-Metals 6020A Solid	1	Cadmium	10/28/22	11:56:00	TU		0.660	2.64	I	1.05
221003-060J	ICP-Metals 6020A Solid	1	Chromium	10/28/22	11:56:00	TU		0.724	2.90	I	1.09
221003-060J	ICP-Metals 6020A Solid	1	Copper	10/28/22	11:56:00	TU		0.741	2.96	I	1.09
221003-060J	ICP-Metals 6020A Solid	1	Dilution	10/28/22	11:56:00	TU					1.00
221003-060J	ICP-Metals 6020A Solid	1	Iron	10/28/22	11:56:00	TU		1.19	4.76	I	1.35
221003-060J	ICP-Metals 6020A Solid	1	Lead	10/28/22	11:56:00	TU		0.836	3.34	I	1.06
221003-060J	ICP-Metals 6020A Solid	1	Manganese	10/28/22	11:56:00	TU		0.855	3.42	I	1.07
221003-060J	ICP-Metals 6020A Solid	1	Mercury	10/28/22	11:56:00	TU					
221003-060J	ICP-Metals 6020A Solid	1	Nickel	10/28/22	11:56:00	TU		0.748	2.99	I	1.06
221003-060J	ICP-Metals 6020A Solid	1	Selenium	10/28/22	11:56:00	TU		0.882	3.53	I	1.13
221003-060J	ICP-Metals 6020A Solid	1	Silver	10/28/22	11:56:00	TU		0.696	2.78	I	1.04

Sample Num	Test Name	Run	Parameter	Date	Time	Analyst	QC Type	MDL	PQL	Flag	Result
221003-060J	ICP-Metals 6020A Solid	1	Thallium	10/28/22	11:56:00	TU		0.765	3.06	I	1.06
221003-060J	ICP-Metals 6020A Solid	1	Vanadium	10/28/22	11:56:00	TU		0.718	2.87	I	1.04
221003-060J	ICP-Metals 6020A Solid	1	Zinc	10/28/22	11:56:00	TU		0.711	2.84	I	1.12
221003-061J	ICP-Metals 6020A Solid	1	Aluminum	10/28/22	11:56:00	TU					
221003-061J	ICP-Metals 6020A Solid	1	Arsenic	10/28/22	11:56:00	TU		0.617	2.47	I	1.04
221003-061J	ICP-Metals 6020A Solid	1	Barium	10/28/22	11:56:00	TU		0.781	3.12	I	1.04
221003-061J	ICP-Metals 6020A Solid	1	Beryllium	10/28/22	11:56:00	TU		1.09	4.36	U	1.03
221003-061J	ICP-Metals 6020A Solid	1	Cadmium	10/28/22	11:56:00	TU		0.660	2.64	I	1.05
221003-061J	ICP-Metals 6020A Solid	1	Chromium	10/28/22	11:56:00	TU		0.724	2.90	I	1.09
221003-061J	ICP-Metals 6020A Solid	1	Copper	10/28/22	11:56:00	TU		0.741	2.96	I	1.09
221003-061J	ICP-Metals 6020A Solid	1	Dilution	10/28/22	11:56:00	TU					1.00
221003-061J	ICP-Metals 6020A Solid	1	Iron	10/28/22	11:56:00	TU		1.19	4.76	I	1.35
221003-061J	ICP-Metals 6020A Solid	1	Lead	10/28/22	11:56:00	TU		0.836	3.34	I	1.06
221003-061J	ICP-Metals 6020A Solid	1	Manganese	10/28/22	11:56:00	TU		0.855	3.42	I	1.07
221003-061J	ICP-Metals 6020A Solid	1	Mercury	10/28/22	11:56:00	TU					
221003-061J	ICP-Metals 6020A Solid	1	Nickel	10/28/22	11:56:00	TU		0.748	2.99	I	1.06
221003-061J	ICP-Metals 6020A Solid	1	Selenium	10/28/22	11:56:00	TU		0.882	3.53	I	1.13
221003-061J	ICP-Metals 6020A Solid	1	Silver	10/28/22	11:56:00	TU		0.696	2.78	I	1.04
221003-061J	ICP-Metals 6020A Solid	1	Thallium	10/28/22	11:56:00	TU		0.765	3.06	I	1.06
221003-061J	ICP-Metals 6020A Solid	1	Vanadium	10/28/22	11:56:00	TU		0.718	2.87	I	1.04
221003-061J	ICP-Metals 6020A Solid	1	Zinc	10/28/22	11:56:00	TU		0.711	2.84	I	1.12
221003-062J	ICP-Metals 6020A Solid	1	Aluminum	10/28/22	11:56:00	TU					
221003-062J	ICP-Metals 6020A Solid	1	Arsenic	10/28/22	11:56:00	TU		0.617	2.47	I	1.20
221003-062J	ICP-Metals 6020A Solid	1	Barium	10/28/22	11:56:00	TU		0.781	3.12	I	1.23
221003-062J	ICP-Metals 6020A Solid	1	Beryllium	10/28/22	11:56:00	TU		1.09	4.36	I	1.58
221003-062J	ICP-Metals 6020A Solid	1	Cadmium	10/28/22	11:56:00	TU		0.660	2.64	I	1.28
221003-062J	ICP-Metals 6020A Solid	1	Chromium	10/28/22	11:56:00	TU		0.724	2.90	I	1.34
221003-062J	ICP-Metals 6020A Solid	1	Copper	10/28/22	11:56:00	TU		0.741	2.96	I	1.34
221003-062J	ICP-Metals 6020A Solid	1	Dilution	10/28/22	11:56:00	TU					1.00
221003-062J	ICP-Metals 6020A Solid	1	Iron	10/28/22	11:56:00	TU		1.19	4.76	I	1.51
221003-062J	ICP-Metals 6020A Solid	1	Lead	10/28/22	11:56:00	TU		0.836	3.34	I	1.25
221003-062J	ICP-Metals 6020A Solid	1	Manganese	10/28/22	11:56:00	TU		0.855	3.42	I	1.28
221003-062J	ICP-Metals 6020A Solid	1	Mercury	10/28/22	11:56:00	TU					
221003-062J	ICP-Metals 6020A Solid	1	Nickel	10/28/22	11:56:00	TU		0.748	2.99	I	1.32
221003-062J	ICP-Metals 6020A Solid	1	Selenium	10/28/22	11:56:00	TU		0.882	3.53	I	1.42
221003-062J	ICP-Metals 6020A Solid	1	Silver	10/28/22	11:56:00	TU		0.696	2.78	I	1.19

Sample Num	Test Name	Run	Parameter	Date	Time	Analyst	QC Type	MDL	PQL	Flag	Result
221003-062J	ICP-Metals 6020A Solid	1	Thallium	10/28/22	11:56:00	TU		0.765	3.06	I	1.23
221003-062J	ICP-Metals 6020A Solid	1	Vanadium	10/28/22	11:56:00	TU		0.718	2.87	I	1.29
221003-062J	ICP-Metals 6020A Solid	1	Zinc	10/28/22	11:56:00	TU		0.711	2.84	I	1.35
221014-001B	ICP-Metals 6020A Solid	1	Aluminum	10/28/22	11:56:00	TU					
221014-001B	ICP-Metals 6020A Solid	1	Arsenic	10/28/22	11:56:00	TU		0.617	2.47	U	0.308
221014-001B	ICP-Metals 6020A Solid	1	Barium	10/28/22	11:56:00	TU		0.781	3.12		5.27
221014-001B	ICP-Metals 6020A Solid	1	Beryllium	10/28/22	11:56:00	TU		1.09	4.36	U	0.039
221014-001B	ICP-Metals 6020A Solid	1	Cadmium	10/28/22	11:56:00	TU		0.660	2.64	U	0.033
221014-001B	ICP-Metals 6020A Solid	1	Chromium	10/28/22	11:56:00	TU		0.724	2.90	I	2.70
221014-001B	ICP-Metals 6020A Solid	1	Copper	10/28/22	11:56:00	TU		0.741	2.96	I	2.54
221014-001B	ICP-Metals 6020A Solid	1	Dilution	10/28/22	11:56:00	TU					1.00
221014-001B	ICP-Metals 6020A Solid	1	Iron	10/28/22	11:56:00	TU		23.8	95.2		532
221014-001B	ICP-Metals 6020A Solid	1	Lead	10/28/22	11:56:00	TU		0.836	3.34	I	2.35
221014-001B	ICP-Metals 6020A Solid	1	Manganese	10/28/22	11:56:00	TU		0.855	3.42		16.6
221014-001B	ICP-Metals 6020A Solid	1	Mercury	10/28/22	11:56:00	TU					
221014-001B	ICP-Metals 6020A Solid	1	Nickel	10/28/22	11:56:00	TU		0.748	2.99	I	0.915
221014-001B	ICP-Metals 6020A Solid	1	Selenium	10/28/22	11:56:00	TU		0.882	3.53	I	2.29
221014-001B	ICP-Metals 6020A Solid	1	Silver	10/28/22	11:56:00	TU		0.696	2.78	U	0.027
221014-001B	ICP-Metals 6020A Solid	1	Thallium	10/28/22	11:56:00	TU		0.765	3.06	U	0.010
221014-001B	ICP-Metals 6020A Solid	1	Vanadium	10/28/22	11:56:00	TU		0.718	2.87	I	1.18
221014-001B	ICP-Metals 6020A Solid	1	Zinc	10/28/22	11:56:00	TU		0.711	2.84		10.1
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Aluminum				SPD				
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Aluminum - % Recovery				SPD				
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Aluminum - Diluent Factor				SPD				
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Aluminum - RPD				SPD				
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Aluminum - True Value				SPD				
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Arsenic				SPD	0.617	2.47		16.9
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Arsenic - % Recovery				SPD				113
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Arsenic - Diluent Factor				SPD				1.00
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Arsenic - RPD				SPD				1.76
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Arsenic - True Value				SPD				14.7
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Barium				SPD	0.781	3.12		21.9
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Barium - % Recovery				SPD				113
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Barium - Diluent Factor				SPD				1.00
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Barium - RPD				SPD				2.26
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Barium - True Value				SPD				14.7

Sample Num	Test Name	Run	Parameter	Date	Time	Analyst	QC Type	MDL	PQL	Flag	Result
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Beryllium				SPD	1.09	4.36		17.0
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Beryllium - % Recovery				SPD				115
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Beryllium - Diluent Factor				SPD				1.00
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Beryllium - RPD				SPD				0.590
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Beryllium - True Value				SPD				14.7
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Cadmium				SPD	0.660	2.64		16.6
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Cadmium - % Recovery				SPD				113
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Cadmium - Diluent Factor				SPD				1.00
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Cadmium - RPD				SPD				1.20
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Cadmium - True Value				SPD				14.7
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Chromium				SPD	0.724	2.90		18.7
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Chromium - % Recovery				SPD				109
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Chromium - Diluent Factor				SPD				1.00
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Chromium - RPD				SPD				2.12
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Chromium - True Value				SPD				14.7
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Copper				SPD	0.741	2.96		18.7
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Copper - % Recovery				SPD				110
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Copper - Diluent Factor				SPD				1.00
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Copper - RPD				SPD				0.533
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Copper - True Value				SPD				14.7
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Dilution				SPD				1.00
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Iron				SPD	23.8	95.2		825
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Iron - % Recovery				SPD				99.3
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Iron - Diluent Factor				SPD				1.00
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Iron - RPD				SPD				3.34
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Iron - True Value				SPD				295
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Lead				SPD	0.836	3.34		19.2
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Lead - % Recovery				SPD				115
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Lead - Diluent Factor				SPD				1.00
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Lead - RPD				SPD				3.58
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Lead - True Value				SPD				14.7
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Manganese				SPD	0.855	3.42		32.0
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Manganese - % Recovery				SPD				105
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Manganese - Diluent Factor				SPD				1.00
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Manganese - RPD				SPD				4.47
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Manganese - True Value				SPD				14.7

Sample Num	Test Name	Run	Parameter	Date	Time	Analyst	QC Type	MDL	PQL	Flag	Result
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Mercury				SPD				
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Mercury - % Recovery				SPD				
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Mercury - Diluent Factor				SPD				
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Mercury - RPD				SPD				
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Mercury - True Value				SPD				
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Nickel				SPD	0.748	2.99		16.7
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Nickel - % Recovery				SPD				107
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Nickel - Diluent Factor				SPD				1.00
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Nickel - RPD				SPD				2.37
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Nickel - True Value				SPD				14.7
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Selenium				SPD	0.882	3.53		20.3
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Selenium - % Recovery				SPD				122
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Selenium - Diluent Factor				SPD				1.00
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Selenium - RPD				SPD				1.99
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Selenium - True Value				SPD				14.7
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Silver				SPD	0.696	2.78		15.8
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Silver - % Recovery				SPD				107
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Silver - Diluent Factor				SPD				1.00
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Silver - RPD				SPD				1.26
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Silver - True Value				SPD				14.7
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Thallium				SPD	0.765	3.06		16.9
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Thallium - % Recovery				SPD				115
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Thallium - Diluent Factor				SPD				1.00
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Thallium - RPD				SPD				3.49
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Thallium - True Value				SPD				14.7
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Vanadium				SPD	0.718	2.87		17.9
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Vanadium - % Recovery				SPD				114
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Vanadium - Diluent Factor				SPD				1.00
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Vanadium - RPD				SPD				1.66
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Vanadium - True Value				SPD				14.7
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Zinc				SPD	0.711	2.84		26.2
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Zinc - % Recovery				SPD				110
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Zinc - Diluent Factor				SPD				1.00
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Zinc - RPD				SPD				2.64
221014-001B	Spike Duplicate-ICP-Metals 6020A Solid	1	Zinc - True Value				SPD				14.7
221014-001B	Spike-ICP-Metals 6020A Solid	1	Aluminum				SPK				

Sample Num	Test Name	Run	Parameter	Date	Time	Analyst	QC Type	MDL	PQL	Flag	Result
221014-001B	Spike-ICP-Metals 6020A Solid	1	Aluminum - % Recovery				SPK				
221014-001B	Spike-ICP-Metals 6020A Solid	1	Aluminum - Diluent Factor				SPK				
221014-001B	Spike-ICP-Metals 6020A Solid	1	Aluminum - True Value				SPK				
221014-001B	Spike-ICP-Metals 6020A Solid	1	Arsenic				SPK	0.617	2.47		17.2
221014-001B	Spike-ICP-Metals 6020A Solid	1	Arsenic - % Recovery				SPK				113
221014-001B	Spike-ICP-Metals 6020A Solid	1	Arsenic - Diluent Factor				SPK				1.00
221014-001B	Spike-ICP-Metals 6020A Solid	1	Arsenic - True Value				SPK				14.9
221014-001B	Spike-ICP-Metals 6020A Solid	1	Barium				SPK	0.781	3.12		22.4
221014-001B	Spike-ICP-Metals 6020A Solid	1	Barium - % Recovery				SPK				115
221014-001B	Spike-ICP-Metals 6020A Solid	1	Barium - Diluent Factor				SPK				1.00
221014-001B	Spike-ICP-Metals 6020A Solid	1	Barium - True Value				SPK				14.9
221014-001B	Spike-ICP-Metals 6020A Solid	1	Beryllium				SPK	1.09	4.36		16.9
221014-001B	Spike-ICP-Metals 6020A Solid	1	Beryllium - % Recovery				SPK				113
221014-001B	Spike-ICP-Metals 6020A Solid	1	Beryllium - Diluent Factor				SPK				1.00
221014-001B	Spike-ICP-Metals 6020A Solid	1	Beryllium - True Value				SPK				14.9
221014-001B	Spike-ICP-Metals 6020A Solid	1	Cadmium				SPK	0.660	2.64		16.8
221014-001B	Spike-ICP-Metals 6020A Solid	1	Cadmium - % Recovery				SPK				112
221014-001B	Spike-ICP-Metals 6020A Solid	1	Cadmium - Diluent Factor				SPK				1.00
221014-001B	Spike-ICP-Metals 6020A Solid	1	Cadmium - True Value				SPK				14.9
221014-001B	Spike-ICP-Metals 6020A Solid	1	Chromium				SPK	0.724	2.90		19.1
221014-001B	Spike-ICP-Metals 6020A Solid	1	Chromium - % Recovery				SPK				110
221014-001B	Spike-ICP-Metals 6020A Solid	1	Chromium - Diluent Factor				SPK				1.00
221014-001B	Spike-ICP-Metals 6020A Solid	1	Chromium - True Value				SPK				14.9
221014-001B	Spike-ICP-Metals 6020A Solid	1	Copper				SPK	0.741	2.96		18.8
221014-001B	Spike-ICP-Metals 6020A Solid	1	Copper - % Recovery				SPK				109
221014-001B	Spike-ICP-Metals 6020A Solid	1	Copper - Diluent Factor				SPK				1.00
221014-001B	Spike-ICP-Metals 6020A Solid	1	Copper - True Value				SPK				14.9
221014-001B	Spike-ICP-Metals 6020A Solid	1	Dilution				SPK				1.00
221014-001B	Spike-ICP-Metals 6020A Solid	1	Iron				SPK	23.8	95.2		853
221014-001B	Spike-ICP-Metals 6020A Solid	1	Iron - % Recovery				SPK				107
221014-001B	Spike-ICP-Metals 6020A Solid	1	Iron - Diluent Factor				SPK				1.00
221014-001B	Spike-ICP-Metals 6020A Solid	1	Iron - True Value				SPK				299
221014-001B	Spike-ICP-Metals 6020A Solid	1	Lead				SPK	0.836	3.34		19.9
221014-001B	Spike-ICP-Metals 6020A Solid	1	Lead - % Recovery				SPK				118
221014-001B	Spike-ICP-Metals 6020A Solid	1	Lead - Diluent Factor				SPK				1.00
221014-001B	Spike-ICP-Metals 6020A Solid	1	Lead - True Value				SPK				14.9

Sample Num	Test Name	Run	Parameter	Date	Time	Analyst	QC Type	MDL	PQL	Flag	Result
221014-001B	Spike-ICP-Metals 6020A Solid	1	Manganese				SPK	0.855	3.42		30.6
221014-001B	Spike-ICP-Metals 6020A Solid	1	Manganese - % Recovery				SPK				94.0
221014-001B	Spike-ICP-Metals 6020A Solid	1	Manganese - Diluent Factor				SPK				1.00
221014-001B	Spike-ICP-Metals 6020A Solid	1	Manganese - True Value				SPK				14.9
221014-001B	Spike-ICP-Metals 6020A Solid	1	Mercury				SPK				
221014-001B	Spike-ICP-Metals 6020A Solid	1	Mercury - % Recovery				SPK				
221014-001B	Spike-ICP-Metals 6020A Solid	1	Mercury - Diluent Factor				SPK				
221014-001B	Spike-ICP-Metals 6020A Solid	1	Mercury - True Value				SPK				
221014-001B	Spike-ICP-Metals 6020A Solid	1	Nickel				SPK	0.748	2.99		17.1
221014-001B	Spike-ICP-Metals 6020A Solid	1	Nickel - % Recovery				SPK				109
221014-001B	Spike-ICP-Metals 6020A Solid	1	Nickel - Diluent Factor				SPK				1.00
221014-001B	Spike-ICP-Metals 6020A Solid	1	Nickel - True Value				SPK				14.9
221014-001B	Spike-ICP-Metals 6020A Solid	1	Selenium				SPK	0.882	3.53		19.9
221014-001B	Spike-ICP-Metals 6020A Solid	1	Selenium - % Recovery				SPK				118
221014-001B	Spike-ICP-Metals 6020A Solid	1	Selenium - Diluent Factor				SPK				1.00
221014-001B	Spike-ICP-Metals 6020A Solid	1	Selenium - True Value				SPK				14.9
221014-001B	Spike-ICP-Metals 6020A Solid	1	Silver				SPK	0.696	2.78		16.0
221014-001B	Spike-ICP-Metals 6020A Solid	1	Silver - % Recovery				SPK				107
221014-001B	Spike-ICP-Metals 6020A Solid	1	Silver - Diluent Factor				SPK				1.00
221014-001B	Spike-ICP-Metals 6020A Solid	1	Silver - True Value				SPK				14.9
221014-001B	Spike-ICP-Metals 6020A Solid	1	Thallium				SPK	0.765	3.06		17.5
221014-001B	Spike-ICP-Metals 6020A Solid	1	Thallium - % Recovery				SPK				117
221014-001B	Spike-ICP-Metals 6020A Solid	1	Thallium - Diluent Factor				SPK				1.00
221014-001B	Spike-ICP-Metals 6020A Solid	1	Thallium - True Value				SPK				14.9
221014-001B	Spike-ICP-Metals 6020A Solid	1	Vanadium				SPK	0.718	2.87		18.2
221014-001B	Spike-ICP-Metals 6020A Solid	1	Vanadium - % Recovery				SPK				114
221014-001B	Spike-ICP-Metals 6020A Solid	1	Vanadium - Diluent Factor				SPK				1.00
221014-001B	Spike-ICP-Metals 6020A Solid	1	Vanadium - True Value				SPK				14.9
221014-001B	Spike-ICP-Metals 6020A Solid	1	Zinc				SPK	0.711	2.84		26.9
221014-001B	Spike-ICP-Metals 6020A Solid	1	Zinc - % Recovery				SPK				113
221014-001B	Spike-ICP-Metals 6020A Solid	1	Zinc - Diluent Factor				SPK				1.00
221014-001B	Spike-ICP-Metals 6020A Solid	1	Zinc - True Value				SPK				14.9
221014-002B	ICP-Metals 6020A Solid	1	Aluminum	10/28/22	11:56:00	TU					
221014-002B	ICP-Metals 6020A Solid	1	Arsenic	10/28/22	11:56:00	NAR		0.617	2.47	I	1.06
221014-002B	ICP-Metals 6020A Solid	1	Barium	10/28/22	11:56:00	TU		0.781	3.12		5.32
221014-002B	ICP-Metals 6020A Solid	1	Beryllium	10/28/22	11:56:00	TU		1.09	4.36	U	0.045

Sample Num	Test Name	Run	Parameter	Date	Time	Analyst	QC Type	MDL	PQL	Flag	Result
221014-002B	ICP-Metals 6020A Solid	1	Cadmium	10/28/22	11:56:00	TU		0.660	2.64	U	0.101
221014-002B	ICP-Metals 6020A Solid	1	Chromium	10/28/22	11:56:00	TU		0.724	2.90		6.09
221014-002B	ICP-Metals 6020A Solid	1	Copper	10/28/22	11:56:00	TU		0.741	2.96		24.1
221014-002B	ICP-Metals 6020A Solid	1	Dilution	10/28/22	11:56:00	TU					1.00
221014-002B	ICP-Metals 6020A Solid	1	Iron	10/28/22	11:56:00	TU		59.5	238		1530
221014-002B	ICP-Metals 6020A Solid	1	Lead	10/28/22	11:56:00	TU		0.836	3.34		15.0
221014-002B	ICP-Metals 6020A Solid	1	Manganese	10/28/22	11:56:00	TU		0.855	3.42		33.4
221014-002B	ICP-Metals 6020A Solid	1	Mercury	10/28/22	11:56:00	TU					
221014-002B	ICP-Metals 6020A Solid	1	Nickel	10/28/22	11:56:00	TU		0.748	2.99		4.62
221014-002B	ICP-Metals 6020A Solid	1	Selenium	10/28/22	11:56:00	TU		0.882	3.53	I	3.40
221014-002B	ICP-Metals 6020A Solid	1	Silver	10/28/22	11:56:00	TU		0.696	2.78	U	0.092
221014-002B	ICP-Metals 6020A Solid	1	Thallium	10/28/22	11:56:00	TU		0.765	3.06	U	0.016
221014-002B	ICP-Metals 6020A Solid	1	Vanadium	10/28/22	11:56:00	TU		0.718	2.87		9.86
221014-002B	ICP-Metals 6020A Solid	1	Zinc	10/28/22	11:56:00	TU		35.6	142	I	129
221014-003B	ICP-Metals 6020A Solid	1	Aluminum	10/28/22	11:56:00	TU					
221014-003B	ICP-Metals 6020A Solid	1	Arsenic	10/28/22	11:56:00	TU		0.617	2.47	I	1.17
221014-003B	ICP-Metals 6020A Solid	1	Barium	10/28/22	11:56:00	TU		0.781	3.12		6.41
221014-003B	ICP-Metals 6020A Solid	1	Beryllium	10/28/22	11:56:00	TU		1.09	4.36	U	0.075
221014-003B	ICP-Metals 6020A Solid	1	Cadmium	10/28/22	11:56:00	TU		0.660	2.64	U	0.132
221014-003B	ICP-Metals 6020A Solid	1	Chromium	10/28/22	11:56:00	TU		0.724	2.90		7.64
221014-003B	ICP-Metals 6020A Solid	1	Copper	10/28/22	11:56:00	TU		0.741	2.96		34.8
221014-003B	ICP-Metals 6020A Solid	1	Dilution	10/28/22	11:56:00	TU					1.00
221014-003B	ICP-Metals 6020A Solid	1	Iron	10/28/22	11:56:00	TU		59.5	238		1890
221014-003B	ICP-Metals 6020A Solid	1	Lead	10/28/22	11:56:00	TU		0.836	3.34		17.7
221014-003B	ICP-Metals 6020A Solid	1	Manganese	10/28/22	11:56:00	TU		0.855	3.42		37.0
221014-003B	ICP-Metals 6020A Solid	1	Mercury	10/28/22	11:56:00	TU					
221014-003B	ICP-Metals 6020A Solid	1	Nickel	10/28/22	11:56:00	TU		0.748	2.99		5.77
221014-003B	ICP-Metals 6020A Solid	1	Selenium	10/28/22	11:56:00	TU		0.882	3.53	I	3.47
221014-003B	ICP-Metals 6020A Solid	1	Silver	10/28/22	11:56:00	TU		0.696	2.78	U	0.138
221014-003B	ICP-Metals 6020A Solid	1	Thallium	10/28/22	11:56:00	TU		0.765	3.06	U	0.009
221014-003B	ICP-Metals 6020A Solid	1	Vanadium	10/28/22	11:56:00	TU		0.718	2.87		12.8
221014-003B	ICP-Metals 6020A Solid	1	Zinc	10/28/22	11:56:00	TU		35.6	142		158
221014-004B	ICP-Metals 6020A Solid	1	Aluminum	10/28/22	11:56:00	TU					
221014-004B	ICP-Metals 6020A Solid	1	Arsenic	10/28/22	11:56:00	TU		0.617	2.47	I	1.29
221014-004B	ICP-Metals 6020A Solid	1	Barium	10/28/22	11:56:00	TU		0.781	3.12		7.55
221014-004B	ICP-Metals 6020A Solid	1	Beryllium	10/28/22	11:56:00	TU		1.09	4.36	U	0.066

Sample Num	Test Name	Run	Parameter	Date	Time	Analyst	QC Type	MDL	PQL	Flag	Result
221014-004B	ICP-Metals 6020A Solid	1	Cadmium	10/28/22	11:56:00	TU		0.660	2.64	U	0.105
221014-004B	ICP-Metals 6020A Solid	1	Chromium	10/28/22	11:56:00	TU		0.724	2.90		3.80
221014-004B	ICP-Metals 6020A Solid	1	Copper	10/28/22	11:56:00	TU		0.741	2.96		10.3
221014-004B	ICP-Metals 6020A Solid	1	Dilution	10/28/22	11:56:00	TU					1.00
221014-004B	ICP-Metals 6020A Solid	1	Iron	10/28/22	11:56:00	TU		59.5	238		1310
221014-004B	ICP-Metals 6020A Solid	1	Lead	10/28/22	11:56:00	TU		0.836	3.34		6.79
221014-004B	ICP-Metals 6020A Solid	1	Manganese	10/28/22	11:56:00	TU		0.855	3.42		35.1
221014-004B	ICP-Metals 6020A Solid	1	Mercury	10/28/22	11:56:00	TU					
221014-004B	ICP-Metals 6020A Solid	1	Nickel	10/28/22	11:56:00	TU		0.748	2.99	I	2.05
221014-004B	ICP-Metals 6020A Solid	1	Selenium	10/28/22	11:56:00	TU		0.882	3.53	I	3.25
221014-004B	ICP-Metals 6020A Solid	1	Silver	10/28/22	11:56:00	TU		0.696	2.78	U	0.169
221014-004B	ICP-Metals 6020A Solid	1	Thallium	10/28/22	11:56:00	TU		0.765	3.06	U	0.013
221014-004B	ICP-Metals 6020A Solid	1	Vanadium	10/28/22	11:56:00	TU		0.718	2.87		4.51
221014-004B	ICP-Metals 6020A Solid	1	Zinc	10/28/22	11:56:00	TU		0.711	2.84		37.5